

Please add the following new claims 9-22:

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9. A call admission monitor in a wireless communication network, comprising:
a voice power estimator configured to estimate a total voice power level for all voice communications being serviced on a communication channel; and
a data power estimator configured to estimate a total data power level for all data communications being serviced on the communication channel;
the call admission monitor configured to admit additional voice or data communications based on a configurable dynamic operating point for a maximum channel power.
10. The call admission monitor of claim 9, wherein the maximum channel power is a maximum power level for the sum of the total voice power level and the total data power level for the communication channel.
11. The call admission monitor of claim 9, wherein the total data power level is converted to an equivalent total voice power level, and wherein the maximum channel power is a maximum power level for the sum of the total voice power level and the equivalent total voice power level for the communication channel.
12. The call admission monitor of claim 11, wherein the equivalent total voice power level is based on only those data communications that are currently transmitting.
13. The call admission monitor of claim 9, configured to admit an additional voice communication provided the maximum channel power is not exceeded and provided a sufficient reserved power is available to admit at least one additional data communication.
14. The call admission monitor of claim 9, configured to admit an additional data communication provided the maximum channel power is not exceeded and provided a sufficient reserve power is available to admit at least one additional voice communication.

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15. The call admission monitor of claim 9, further comprising a scheduler configured to schedule channel resources for burst requests originating from data communications that are transitioning from dormant to active.

16. The call admission monitor of claim 15, wherein the scheduler is further configured to schedule the data rate for data communications.

17. The call admission monitor of claim 15, wherein the scheduler is further configured to assign channel resources to a data communication if sufficient channel resources are available, and to periodically check the channel resources until there are sufficient channel resources for the data communication.

18. The call admission monitor of claim 15, wherein the scheduler is further configured to assign channel resources to a data communication if sufficient channel resources are available, and wherein the scheduler is further configured to queue the data communications when there are insufficient channel resources and to assign the resources, as they become available, to the queued data communications.

19. A wireless communications system, comprising:
a plurality of mobile devices configured for data and voice communication; and
at least one base station that includes a call admission monitor, the call admission monitor comprising
a voice power estimator configured to estimate a total voice power level for all voice communications being serviced on a communications channel; and
a data power estimator configured to estimate a total data power level for all data communications being serviced on the communications channel;
the call admission monitor configured to admit additional voice or data communications based on a configurable dynamic operating point for a maximum channel power.

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20. The wireless communication system of claim 19, the call admission monitor configured to admit an additional voice communication provided the maximum channel power is not exceeded and provided a sufficient reserved power is available to admit at least one additional data communication.

21. The wireless communication system of claim 19, the call admission monitor configured to admit an additional data communication provided the maximum channel power is not exceeded and provided a sufficient reserve power is available to admit at least one additional voice communication.

22. The wireless communication system of claim 19, wherein the call admission monitor further comprises a scheduler configured to schedule channel resources for burst requests originating from data communications that are transitioning from dormant to active.

Respectfully submitted,

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